Title (en)

APPARATUS AND RELATED METHOD TO COMPENSATE FOR TORQUE RIPPLE IN A PERMANENT MAGNET ELECTRIC MOTOR

Publication

EP 0564608 A4 19940817 (EN)

Application

EP 92918757 A 19920814

Priority

- US 78329891 A 19911028
- US 9206863 W 19920814

Abstract (en)

[origin: WO9309595A1] An input control current command signal (52) is modified in accordance with a number of compensation factors stored in a memory and corresponding to each of a number of angular shaft positions to provide a control signal to cause an inverter (84) to drive each of the number of phases of a permanent magnet axial-field motor (88) to cause the motor to produce a ripple-free torque output. The compensation values stored in the memory are identified and determined in accordance with the source of the torque ripple such as vibration, load operation, noise and variations within the motor construction.

IPC 1-7

H02P 7/00

IPC 8 full level

H02P 6/10 (2006.01)

CPC (source: EP KR US)

H02P 6/10 (2013.01 - EP US); **H02P 7/00** (2013.01 - KR); Y10S 388/902 (2013.01 - EP US)

Citation (search report)

- [A] GB 2204197 A 19881102 - LEE I SOO
- [Y] PATENT ABSTRACTS OF JAPAN vol. 6, no. 211 (E - 137)<1089> 23 October 1982 (1982-10-23)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 11, no. 36 (E - 477) 3 February 1987 (1987-02-03)
- See references of WO 9309595A1

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DE102014105730A1; EP0895344A3; US6859001B2; WO2015161844A1

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